

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): An apparatus for manufacturing thermal insulation blanket or insulation batt material, comprising:
 - a conveying means for conveying said insulation blanket or insulation batt material;
 - a rotary die cutting cylinder located along a path of the conveying means and having at least one cutting rule that severs said insulation, and having at least one perfing rule that has a plurality of unstepped regions comprising rectangular cutting portions along an edge of the perfing rule for perforating said insulation blanket or insulation batt material, with stepped regions comprising rectangular slots between adjacent ones of the rectangular cutting portions,
wherein the cutting portions are oriented perpendicular to a surface of the rotary die cutting cylinder, and the stepped regions are not sharpened, so that a cutting depth of the stepped regions ranges from zero to one half of a thickness of said insulation blanket or insulation batt material, and
wherein the rotary die cutting cylinder is capable of compressing said insulation blanket or insulation batt material, so that a single one of the at least one cutting rule is capable of completely severing a plurality of different insulation materials having a range of thicknesses; and
 - an anvil cooperative with said rotary die cutting cylinder for perforating and severing said insulation blanket or insulation batt material.
2. (Original): The apparatus of claim 1, wherein said conveying means comprises two adjacent conveyor belts.
3. (Original): The apparatus of claim 2, wherein the rotary die cutting cylinder and anvil are located intermediate the two conveyor belts.

4. (Previously Presented): The apparatus of claim 1, wherein the rotary die cutting cylinder includes three perfing rules and one cutting rule.
5. (Previously presented): The apparatus of claim 1, wherein the rotary die cutting cylinder includes two cutting rules, and six perfing rules with steps along a length thereof.
6. (Previously Presented): The apparatus of claim 1, wherein the rotary die cutting cylinder includes seven perfing rules and one cutting rule.
7. (Previously Presented): The apparatus of claim 1, wherein each perfing rule and cutting rule is approximately 17 or 25 inches in width.
8. (Previously Presented): The apparatus of claim 1, wherein the perfing rules and at least one cutting rule are removable.
9. (Withdrawn): The apparatus of claim 1, wherein the rotary die cutting cylinder has a circumference of approximately fifty inches.
10. (Withdrawn – Previously Presented): The apparatus of claim 9, wherein the rotary die cutting cylinder includes three perfing rules and one cutting rule, and wherein the rules are 12.5 inches apart along the circumference of the rotary die cutting cylinder.
11. (Original): The apparatus of claim 1, wherein the rotary die cutting cylinder has a circumference of approximately one hundred inches.
12. (Withdrawn): The apparatus of claim 11, wherein the rotary die cutting cylinder includes seven perfing rules and one cutting rule, and wherein the rules are 12.5 inches apart along the circumference of the rotary die cutting cylinder.
13. (Previously Presented): The apparatus of claim 11, wherein the rotary die cutting cylinder includes six perfing rules and two cutting rules, and wherein the rules are 12.5 inches apart along the circumference of the rotary die cutting cylinder, and wherein the rotary die cutting cylinder

includes two sets of three consecutive perfing rules with cutting rules between the sets of perfing rules, the perfing rules having steps along lengths thereof.

14. (Original): The apparatus of claim 1, further comprising means for automatically tearing the plurality of separable segments apart.

15. (Original): The apparatus of claim 14, wherein the tearing means includes means for conveying a first and a second adjacent separable segments at different speeds to tear the first and second separable segments apart from each other.

16. (Original): The apparatus of claim 14, wherein the tearing means includes means for pinching and holding a first separable segment in a first direction and pinching and pulling forward a second separable segment adjacent the first separable segment in a second direction opposite the first direction.

17. (Withdrawn): The apparatus of claim 14, wherein the tearing means includes means for restraining a first separable segment and pulling an adjacent second separable segment away from the first separable segment.

18. (Withdrawn): A method of manufacturing batts for insulating band joist spaces with the apparatus of claim 1, comprising:

providing the rotary die cutting cylinder having at least one perfing rule and at least one cutting rule;

conveying an insulation batt, roll or lane to the rotary die cutting cylinder; and partially cutting the batt, roll or lane transversely with the rotary die cutting cylinder to form a plurality of separable segments sized for insulating band joist spaces.

19. (Withdrawn): The method of claim 18, further comprising completely severing the batt, roll or lane.

20. (Withdrawn): The method of claim 18, wherein the step of partially cutting comprises perforating the batt, roll or lane using a plurality of said perfing rules to form the plurality of separable segments.
21. (Withdrawn): The method of claim 18, wherein the step of partially cutting comprises transversely slicing the batt while leaving a horizontal connecting piece which connects the separable segments.
22. (Withdrawn): The method of claim 18, wherein the speed of rotation of the rotary die cutting cylinder is substantially synchronized with the speed of the insulation being conveyed to the rotary die cutting cylinder.
23. (Withdrawn): The method of claim 22, wherein the speed of the insulation being conveyed is between about 80 feet per minute to about 200 feet per minute.
24. (Withdrawn): The method of claim 18, further comprising automatically tearing the plurality of separable segments apart.
25. (Withdrawn): The method of claim 24, wherein step (b) includes pinching and holding a first separable segment in a first direction and pulling forward a second separable segment adjacent the first separable segment in a second direction opposite the first direction.
26. (Withdrawn): The method of claim 24, wherein step (b) includes conveying a first and a second adjacent separable segments at different speeds to tear the first and second separable segments apart from each other.
27. (Withdrawn): The method of claim 24, wherein step (b) includes restraining a first separable segment and pulling an adjacent second separable segment away from the first separable segment.
28. (Currently Amended): The apparatus of claim 1, wherein the rotary die cutting cylinder is oriented relative to the conveying means so that the thermal insulation blanket or insulation batt material is partially perforated or severed transversely.

29. (Previously Presented): The apparatus of claim 1, wherein each perfing rule has stepped regions along a length thereof, with a ratio of unstepped region width to stepped region width of 2:1.
30. (Previously Presented): The apparatus of claim 1, wherein each perfing rule has stepped regions along a length thereof, with a ratio of unstepped region width to stepped region width between 1:1 and 12:1.
31. (Previously Presented): The apparatus of claim 1, wherein the anvil is a cylindrical roller.
32. (Previously Presented): The apparatus of claim 1, wherein the anvil has a flat cutting surface.
33. (Canceled).
34. (New): The apparatus of claim 1, wherein the thermal insulation blanket or batt material is fiber glass having a thickness from 4 to 7 inches, the cutting blade has a 1.5 inch depth for cutting the thermal insulation blanket or insulation batt material and the stepped regions of the perfing blade have a step height of approximately 0.125 inch to 1 inch.